

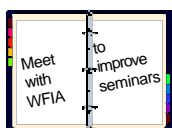
25 tips for good indoor air quality

We hear about bad indoor air quality.

When there are complaints, there is help for private sector building owners and occupants from area staff of OSHA, the federal Occupational Safety and Health Administration.

When the complaint involves a public sector building, one owned by some form of "government," the Safety and Buildings Division Occupational Safety Inspectors and Industrial Hygienists offer consultation and enforcement.

Partnership to improve fire code seminars



by Dan Graham, Director, Safety and Buildings Division Bureau of Field Services, 608-266-0056, dgraham@commerce.state.wi.us

In an effort to improve the delivery of fire code information, S&B will begin working in a combined effort with the Wisconsin Fire Inspectors Association to organize strengthened fire code training seminars.

WFIA President Eugene Reece Jr. stated in a recent message, "It is the intent of the WFIA to help the Department of Commerce present education opportunities for fire inspectors. In some areas of

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Let hear about good indoor air quality.

S&B Industrial Hygienist Richard Brandt, based in Waukesha, used his decades of experience and a foot-high stack of reading material to develop a list of tips for good indoor air quality. Brandt retired in February of this year.

You will notice that some of the tips go beyond what is required by the HVAC code, Comm 64. Keep in mind Comm 64 was developed as a minimum standard. Designers may choose to do more than the code requires to achieve a level of indoor quality higher than the minimum.

If you would like to discuss any of the tips, you can contact Randy Dahmen, 608-266-3162, rdahmen@commerce.state.wi.us.

Good air results from...

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Wisconsin Building Codes Report

Safety and Buildings Division,
Department of Commerce

March 2001



Fire code seminars

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the state, this may be able to be accomplished by utilizing larger areas beyond county lines and in cooperation with WFIA Area Chairs. I have asked Gary Puljus, chairman of our Advisory Committee for Commerce Education, to contact you to discuss the format and possibilities for training opportunities.” Reece also expressed the need to work with other fire service organizations.

Some of the suggestions S&B or the WFIA have received for improving training include:

- Post dates, times, and locations the seminars on the Internet;
- Send more information directly to the fire departments;
- Do not make changes in locations, times, or dates without notice to all fire departments;
- Find alternatives to deal with the difficult logistics of so many local fire department hosts;
- Find some way to lessen training interruptions due to local fire department emergency calls;

For those of you who receive the *WBCR* free because you have a license administered by the Safety and Buildings Division, address changes should be provided to the S&B Credential Unit, madisoncred@commerce.state.wi.us, 608-261-8500.

People with paid subscriptions may request service and provide address changes through Material Orders, PO Box 2509, Madison, WI 53701. Fax 608-261-6699. Telephone 608-267-4405. Email phobbs@commerce.state.wi.us

Subscriptions are \$20, payable in advance to the Safety and Buildings Division for 12 monthly issues.

- Balance times and dates for paid or volunteer fire departments.

The partnership with the WFIA should help with problems of timing of seminars. Reece expressed it this way, “As I told members of the WFIA, I am a promoter of education and educational opportunities. I have had concerns in the past about notification or lack thereof, and the format of the county seminars, and that was my reason to approach you (S&B) in the position as a co-sponsor.” Problems had occurred when seminars were cancelled or moved due to local needs. Historically, S&B had not extensively publicized dates and locations of local code seminars due to the difficulty in scheduling dates and locations with many varied local level organizations.

The WFIA/S&B partnership hopefully can lead to more intensive training seminars for people in a wider area. In an effort to move towards seminars that provide more in-depth information, the number of seminars can be reduced and the level of information given will be expanded. Future seminars will probably last eight hours, and cover more aspects of the codes, rather than have county level seminars hosted by a local fire department on a weekday or weekday evening which have been meant to provide brief overviews of changes to the codes.

Direct comments, suggestions for articles, etc., to Todd Taylor. Fax 608-264-8795.
Telephone 608-267-3606.
ttaylor@commerce.state.wi.us
Madison mailing address above.

S&B WebSite -
<http://www.commerce.state.wi.us/SB/SB-HomePage.html>

25 tips for good indoor air quality

by Richard Brandt, former Safety and Buildings Division Industrial Hygienist

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1. Outside air intakes should be far above ground level, preferably at rooftop height.

2. Air intakes should be 25 feet or more away from the nearest exhaust outlet. (Comm 64.19 requires a minimum of ten feet.)

3. Air intakes should be protected from rain or snow, be 20 feet from standing water, and be 20 feet from a water cooling tower.

4. Air intakes should be always open during times people are in the building, and a building representative should understand the HVAC system and be able to readily determine that intakes are open.

5. There should be at least 15 cubic feet of outside air per minute (cfm) per person entering through an air intake. (Comm 64.05 requires a minimum of 7.5.)

6. Air filters should be 50-70 percent efficient, located upstream from heating components, and be changed upon reaching the pressure differential recommended by the manufacturer.

7. If smoking is permitted in a designated room, the air from that room should be exhausted directly to the outside of the building.

8. Cooling coils and drip pans should be easily accessible for inspection and cleaning.

9. Drip pans should be slanted towards a drain and the drainage tubes be flush with the lowest area of the pans.

10. Tubes draining water from the pan should have a U-shaped vertical bend with two inches of water column greater than the static pressure of the system at that point.

11. Air velocity through cooling systems should be less than 500 linear feet per minute.

12. The water system temperatures should be greater than 140 degrees F (heating) or less than 42 degrees F (cooling).

13. Relative humidity should be between 20-40 percent, and never above 50 percent.

14. The only system of humidification should be live, untreated steam.

15. Air should be continuously distributed to all occupied areas at the rate of six air changes per hour. (Comm 64.06(2)(b) allows less than six air changes if properly sized mechanical cooling is installed.)

16. There should be adequate numbers of air supply, return, and exhaust outlets or grilles provided, and they should be properly located to ensure a uniform distribution of air.

17. Toilet room exhaust should be ducted directly to the outside of the building at the rate of 75 cfm per fixture (water closets and urinals).

18. There should be nearly an equal volume of air exhausted from the building compared to air intake, providing a slight positive pressure (.02-.03 inch water gauge).

19. Loading docks should have a positive air pressure relative to the outdoors, when vehicles dock outside of the building..

20. Entrances to underground parking should have a positive pressure relative to the garage.

21. Ceiling tiles, ceiling materials, and carpeting should not contain water stains, which indicates mold.

22. If water leakage occurs, absorptive materials (carpets, upholstery) should be dried within 12 hours to prevent mold.

23. Crawl spaces under floors should be dry and clean.

24. The carbon dioxide concentration in occupied areas should be between 800-1000 parts per million parts of air.

25. Woodworking, automotive, metal working, science, and arts and crafts activities should be provided with local exhaust ventilation, and activity areas should have a negative pressure relative to other occupancies in the building.



Use of Fire Dampers Under the Commercial Building Code

by Randy Dahmen, Safety and Buildings Division HVAC Consultant,
and Tom Kasper, Bureau of Integrated Services Section Chief

As of April 1, 2000, requirements for fire dampers are no longer in Comm 64, Heating, Ventilating, and Air Conditioning. Comm 64.42, Fire Dampers and Ceiling Dampers, was removed from the code. The requirements for the topic area are now located in Comm 51.0485, Fire Dampers, Smoke Dampers and Ceiling Dampers.

Comm 51.0485 directs users to NFPA 90A-1999 for the details on fire damper installations. Both the building code and the NFPA standard must be reviewed when determining the need for fire dampers.

Fire dampers are rated as either 1.5 or 3 hours. Dampers rated as 1.5 hours may be used in assemblies or in lieu of a shaft of up to a two-hour rating. Three-hour rated dampers are required in assemblies or in lieu of shafts of over a two-hour rating. Where a fire damper is installed, firestopping is not required.

Walls

In general, fire dampers are required when ducts penetrate fire-rated assemblies. Per Comm 51.049(1)(d), fire dampers or firestopping would not be required in those walls that are rated for class of construction purposes only and do not provide

separation between parts of the building. However, in membrane construction the framing members must be properly protected with blocking, wrapping gypsum board membrane through the opening, or using a firestop system.

Per NFPA 90A 3-3.1.1-1999, when penetrating walls that have less than a two-hour fire-resistive rating, NFPA 90A does not require six feet of sheet metal to eliminate the damper, it only requires that the duct be a part of the ducted ventilation system.

Per NFPA 90A, 3-3.1.2, approved fire dampers are required in all air transfer openings in walls that are required to have a fire resistance rating and in which other openings are required to be protected. No amount of ductwork can be added to either side of a partition penetration to eliminate the fire damper when the penetration is being used for the transfer of air.

Comm 51.049(2) requires that the annular space around the metal duct must be properly firestopped when fire dampers are omitted in one-hour walls.

Comm 64.34 prohibits non-metallic ducts from penetrating rated assemblies. Comm 64.35(1)(d) prohibits any "duct connectors" from penetrating rated assemblies. Therefore, only **metallic** flexible ducts may penetrate rated walls. These penetrations would require a fire damper, except in less than two-hour walls, as discussed in the NFPA 90A paragraphs above. Again, a proper firestop must be used if the fire damper is omitted.

Floor/Ceilings

Comm 51.02(11) generally prohibits openings between floors, including unrated floors. This includes ducts that penetrate floors. A shaft or listed duct wrap assembly rated per line 20 of Table 51.03-A, or optionally a fire damper in

PO Box 7969, R.I.P

The Safety and Buildings Division no longer has PO Box 7969 in Madison.

The division discontinued most use of the postal box in the 1997 organizational move from the what at the time was the Department of Industry, Labor, and Human Relations, to the new Department of Commerce.

Now the division has closed its use of the box.

Mailing addresses in the Madison office are specific to the individual programs. If you have a mailing address question, you may contact any of the S&B offices listed on page 10 of this *WBCR*.

certain cases, would be required in a duct that connects floors.

There are certain exceptions in Comm 51.02(11) and other occupancy chapter sections to the prohibition of openings between floors. If an exception allows openings between floors, such as for an open mezzanine, then a duct may penetrate the floor without a fire damper or firestopping, even if the floor is fire rated for class of construction purposes. However, in membrane construction, the framing members must be properly protected with blocking, wrapping gypsum board membrane through the opening, or using a firestop system.

NFPA 90A section 3-3.2 limits the use of fire dampers in lieu of a rated shaft to ducts that vertically penetrate one floor/ceiling or a floor/ceiling and a roof/ceiling, rather than the multiple floor levels permitted by the previous Wisconsin code. Note that branch ducts off of this vertical duct do not require fire dampers.

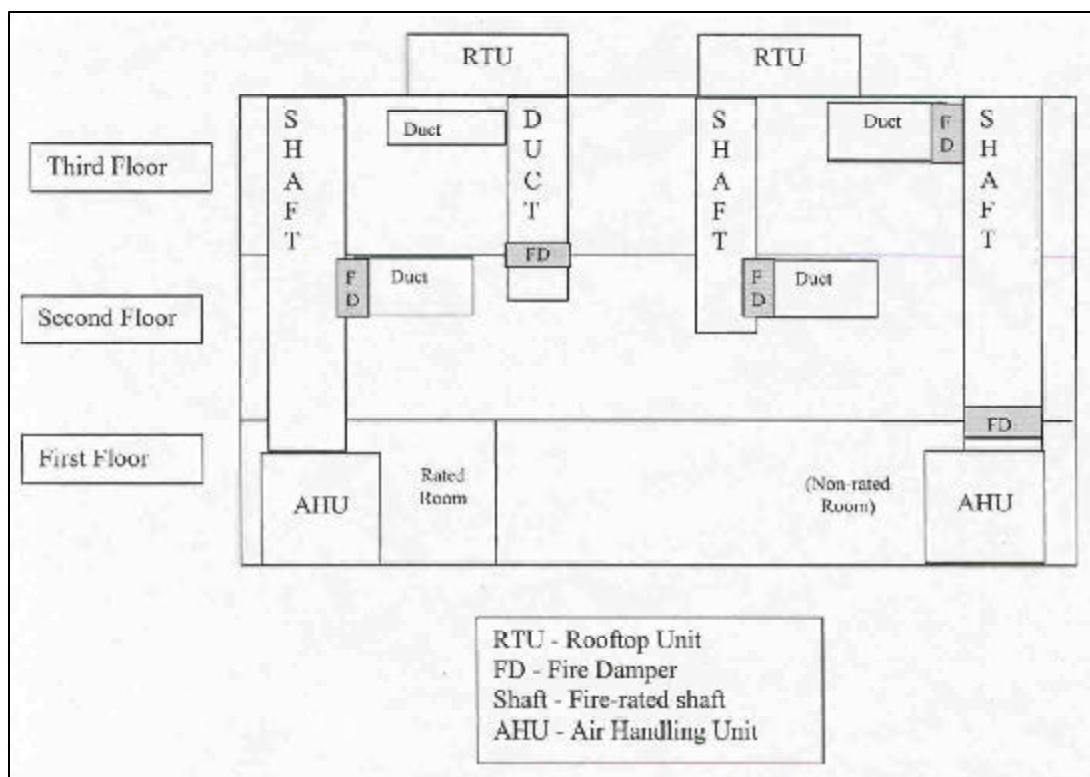
Ducts that penetrate multiple floors shall be contained in shaft enclosures rated per Table 51.03-A.

Note that any penetrations of rated shaft walls are considered vertical penetrations and shall be protected with fire dampers - the exceptions for the use of ducts in one-hour walls do not apply here. A fire damper may be used at the base of a rated shaft for termination purposes.

NFPA 90A section 3-3.4.4 for exhaust ducts allows the substitution of fire dampers with subducts, which are sections of steel duct that continue into the shaft and turn upwards a minimum of 22 inches.

Comm 66.32(5)(c)1, for multifamily dwellings, permits the substitution of a rated damper in a penetration of a non-hourly rated living unit separation **ceiling** with a minimum of six feet of continuous steel ductwork toward the air handling unit. This includes a bathroom exhaust fan box, if steel. This exception does not apply to other occupancies such as hotels or to rated assemblies of one or more hours. This section also allows penetrations of less than 20 square inches without a fire damper in a living unit separation ceiling. For either exception, proper firestopping is required.

Fire Damper and Rated Shaft Options



Fire code comparisons available

Fire code comparisons are available on the Safety and Buildings Division WebSite, <http://www.commerce.state.wi.us/SB/SB-HomePage.html>. Paper copies can be obtained from Roberta Ward, 608-266-8741.

The documents are comparisons of fire-safety related topics as dealt with in the International Fire Code (IFC), sections of Wisconsin's current

buildings administrative codes, and, NFPA 1, the National Fire Protection Association Fire Prevention Code,. The comparisons were done as part of research and evaluation in consideration of adopting model codes in Wisconsin. These topical comparisons indicate the thresholds for when fire sprinkler systems and fire alarm systems are required by the code.

Hazmat remote shutoff safety rule is coming

As of July 1, 2001, any new cargo tank vehicles in the U.S. which fall within the scope of a federal Department of Transportation rule must be equipped with an off-truck remote shutoff system.

Because existing vehicles must be pressure-tested every five years, a five-year retrofit for existing trucks is occurring.

The vehicles in the scope of DOT regulation HM-225A are the trucks providing metered delivery services for liquefied compressed gases, including propane, anhydrous ammonia, and some refrigerants.

The shutoff is accomplished with a remote control device operated by radio frequency that gives truck operators the ability at up to 150 feet from the vehicle to shut off the truck's engine and close the outlet valve.

This is meant to help prevent some spills, mitigate accidents by affecting the amount of product released,

and remove the truck's engine as a potential ignition source.

For more information, contact the DOT Research and Special Programs Administration, 202-366-8553, or call the DOT information line, 800-467-4922. The DOT website address is <http://www.dot.gov/>.

Questions about your continuing education credits?

Check the mailing address back page for a printed line giving your status for inspection-related S&B certifications, licenses, and registrations. Or, call the Credentialing Unit, 608-261-8500, or check the S&B WebSite, <http://www.commerce.state.wi.us/SB/SB-HomePage.html>, choose "Credentials."

Clyde Bryant retired



Clyde Bryant retired on January 26, 2001 after more than 30 years of distinguished service with the Safety and Buildings, having worked with seven division administrators. Bryant performed various tasks - from entry level plan reviewer to preliminary design consultant to his most recent position as plan review section chief and chief consultant for commercial buildings.

Bryant was involved in resolution of code issues on most of Wisconsin's major building projects over the past several decades. In the 1980's he helped initiate control of how long it took for S&B plan reviewers to get reviews completed.

S&B develops standards for considering whether training classes can be approved for continuing education

Problem: In the past, programs in the Safety and Buildings Division, such as plumbing, electrical or building inspection, have had a range of standards used to consider courses for continuing education credit for credential holders.

This caused confusion and controversy for customers who wish to provide courses for more than one program or for those requesting that a course be approved for several credential categories within a program.

Solution: Uniform standards for course approvals. The division decided to work as a unit to develop standards that will be used by each program to consider applications for approval of classes for continuing education credit for credential holders.

Intent: Continuing education credit should enhance the skills, knowledge, and ability necessary to perform the function of the license or certification.

The S&B course approval standards now are:

- ◆ A course may teach codes and national technical standards specific to the licenses or certifications.
- ◆ A course may teach codes and national technical standards related to the job descriptions for the licenses or certifications (e.g., ADA and fire stop penetration for plumbers).
- ◆ A course may teach codes and national technical standards related to an industry.
- ◆ A technical course may focus on work included under a license or certification.
- ◆ A technical course may relate to work performed under a license or certification. (An example would be lighting courses for electricians.)
- ◆ A technical course may concern new products and practices related to a license or certification.
- ◆ A trade show may be related to the industry of a license and certification (max. one hour credit).
- ◆ A course may relate to the training or supervisory responsibilities that are necessary or required under a license or certification.
- ◆ A course may teach math skills related to the

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license or certification exam or job description for the license or certification. This is not basic math, but rather calculations and math needed to perform under a license or certification.

- ◆ A course may teach use of specific technical software used to design or perform responsibilities or activities under a license or certification.
- ◆ Service on a division advisory code council or committee.
- ◆ Attending trade safety courses relating to federal Occupational Safety and Health Administration obligations and requirements under CFR Part 1926 (Construction Site Safety).
- ◆ American Red Cross first aid training or equivalent.

Other con ed notes of interest

S&B can accept evaluated correspondence courses for continuing education credit.

Internet courses can be approved.

Courses are approved for a five-year period. Note that a condition of a course approval may be that course content will be revised if a code change that would impact the nature or scope of the course occurs during that period.

Credit will be given for attending the same course twice. The value of attending the same course with a different audience which asks different questions, thus leading the discussion down different paths, is recognized.

Course approval is required **prior** to presentation of the course. No credit will be given for attending a course prior to course approval except via the petition for variance process.

In Wisconsin the relationship between pull stations and exits is complicated

During a fire alarm seminar in February for enforcement folks in Wisconsin, a question came up about the location of manual fire alarm boxes (i.e. pull stations, operating stations) adjacent to exits.

As you might expect, the NFPA 72 standard provides fairly clear language regarding a pull station's proximity to an exit. This information can be found in Section 2-8 (2-8.1 provides mounting height information and 2-8.2 provides location and spacing information)

Some confusion starts when the question becomes, "What are the exits in the building?" The normal response (except in Wisconsin) works well with the language in section 2-8.2.2 calling for the boxes "within 5 feet of the exit doorway opening at each exit on each floor."

(The adoption of International Code Council model codes will resolve the problems described here.)

Wisconsin's Commercial Building Code and Multifamily Dwelling Code establish the minimum requirements.



In the Wisconsin Commercial Building Code, a basic requirement for an "operating station" is found in Comm 51.24. Similar to the language in NFPA 72, operating stations are to be on each floor of the building, as well as being prominently located at all required exit doors and required exit stairways. Although similar to the NFPA language, the requirement is tied to more than just the "exit doorway opening" on each floor. Determining the required exits from each floor becomes unique to Wisconsin.

Wisconsin is unique in that for some of the occupancies that require manual fire alarms, open stairways are considered an exit from the floor.

by J.B. Smith, S&B Commercial Buildings
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jsmith@commerce.state.wi.us

This does not fit well with the NFPA 72 direction focusing on the "exit doorway opening." In Wisconsin, you must first determine which open stairs are "required" for exiting; then the pull stations will have to be located within five feet of the head/foot of the stairway, on the floor being exited.

For instance, a mezzanine is not a story, but it is a separate floor, and a required stair would be an exit from the floor, calling for a pull station. On the other hand, a floor that is raised or depressed from another floor by less than three feet is considered to be the same floor. Accordingly, the stairs connecting the levels would not be an exit from the floor, and no pull station is needed..

This article has only touched on the subject and has only included a few of the nuances that relate to required exits and fire alarms.

To learn more about the occupancies and details that require manual fire alarm systems, refer to Comm 54.17, Comm 56.19, Comm 57.17, Comm 58.27, Comm 58.64, Comm 59.24, Comm 60.36 and Comm 66.50.

In those same occupancies, to learn more about the requirements relating to exits, refer to Comm 54.02 - 54.08, Comm 56.06 - 56.10, Comm 57.03 - 57.08, Comm 58.04 - 58.15, Comm 58.48 - 58.56, Comm 59.14 - 59.17, Comm 60.12, 60.31 - 60.34 and Comm 66.34 - 66.42.

"The adoption of International Code Council model codes will resolve the problems described here."

CERTIFIED MUNICIPALITIES

Per Comm 50.21(5)(c), the following municipalities are certified to review plans for new buildings containing less than 50,000 cubic feet total volume; additions to existing buildings where the total area after construction of the addition is less than 50,000 cubic feet; additions to existing buildings containing no more than 2,500 square feet, no more than one floor level, 18 foot maximum roof span and 12 foot maximum exterior wall height; and alterations to existing building where the area of altered space is less than 100,000 cubic feet of total volume. If your project is located in a listed municipality, and meets the size criteria, contact the municipality for plan review. For information regarding the current status of a municipality, call 262-548-8615.

Also, all municipalities listed below are authorized to perform inspections of all buildings and structures as an agent of the state, unless marked with an (L). Municipalities marked with (L) are limited to perform only the inspections authorized by Comm 50.21(5)(c). Municipalities marked with an* are also authorized to review plans without limit on size of building or project.

Cities and Villages: Altoona, Antigo, Augusta, Beloit, Berlin, Big Bend, Black River Falls, Brookfield, Brownsville, Cedarburg, Cudahy, Delafield, Dousman, Dresser, East Troy, Eau Claire, Elkhorn, Elm Grove, Ephraim, Fall Creek, Fitchburg, Fond du Lac, Fontana, Fort Atkinson, Franklin, Fredonia, Glendale, Grafton(L), Green Bay, Greenfield, Hartland, Hortonville(L), Howard, Janesville*, Jackson, Johnson Creek, Kaukauna, Kenosha, Kohler, La Crosse(L), Lake Geneva(L), Madison* , Marshfield(L), McFarland, Mequon, Middleton, Milwaukee*, Monroe, Muskego, New Berlin, New Richmond, North Fond du Lac, Oak Creek, Oconomowoc, Oregon(L), Osceola, Oshkosh, Osseo(L), Paddock Lake, Pleasant Prairie, Plover, Port Edwards(L), Poynette, Racine(L), Ripon, Seymour, Sheboygan, Silver Lake, Sister Bay, Stevens Point, Sturgeon Bay, Sun Prairie, Superior, Sussex(L), Twin Lakes, Walworth, Waterford(L), Waukesha(L), Waunakee, Waupun, Wausau(L), Wauwatosa, West Allis, West Bend, West Milwaukee, Whitefish Bay, Wis. Rapids.

Towns (County): Berry (Dane), Bloomfield (Walworth)(L), Blooming Grove (Dane), Bristol (Kenosha), Cottage Grove (Dane), Delavan (Walworth), Eagle (Waukesha)(L), Farmington (Polk), Geneva (Walworth), Grand Chute (Outagamie), Grand Rapids (Wood)(L), Hebron (Jefferson), Hull (Portage), LaGrange (Walworth), Linn (Walworth), Metomem (Fond du Lac), Mukwonago (Wauke.), Norway (Racine), Ottawa

(Waukesha), Plover (Portage), Raymond (Racine), Saukville (Ozaukee), Seymour (Eau Claire)(L), Springdale (Dane), Spring Green (Sauk), Sugar Creek (Walworth), Theresa (Dodge), Walworth (Walworth), Waterford (Racine), Waukesha (Waukesha), Wheatland (Kenosha), Windsor (Dane).

Counties: Eau Claire(L). Municipalities authorized to review plans and perform inspections located in Eau Claire county shall be contacted directly, all other municipalities shall contact Eau Claire county government.

Inspections Only: There is also a group of municipalities having inspection authority for commercial and multifamily buildings, but which do not have plan review authority. The Safety and Buildings Division does plan review for all buildings and structures located in these municipalities: City of Appleton (Outagamie), Village of Belgium (Ozaukee), Village of Cambridge (Dane), Town of Cedarburg (Ozaukee), City of Fond du Lac (Fond du Lac), Town of Lyons (Walworth), Town of Madison (Dane), Town of Oakland (Jefferson), Village of Oregon (Dane), Town of Pleasant Springs (Dane), Town of Rochester (Racine), Village of Rochester (Racine), City of South Milwaukee (Milwaukee), City of Sparta (Monroe), Village of Sturtevant (Racine), Town of Summit (Waukesha), Village of Thiensville (Ozaukee), City of Watertown (Jefferson, Dodge).

Safety and Buildings Offices

(Maps of S&B office locations are available on the WebSite at <http://www.commerce.state.wi.us/SB/SB-Offices.html>)

Green Bay Office
2331 San Luis Pl #150
Green Bay WI 54304
920-492-5601
Fax 920-492-5604
greenbaysch@commerce.state.wi.us

Hayward Office
10541N Ranch Rd
Hayward WI 54843
715-634-4870
Fax 715-634-5150
haywardsch@commerce.state.wi.us

La Crosse Office
4003 North Kinney
Coulee Road
La Crosse WI 54603
608-785-9334
Fax 608-785-9330
lacrossesch@commerce.state.wi.us

Madison Office
201 W Washington Ave
PO 2658
Madison WI 53701
608-266-3151
Fax 877-840-9172
madisonsch@commerce.state.wi.us

Shawano Office
1340 E Green Bay St #300
Shawano WI 54166
715-524-3626
Fax 715-524-3633
shawanosch@commerce.state.wi.us

Waukesha Office
401 Pilot Ct # C
Waukesha WI 53188
262-548-8600
Fax 262-548-8614
waukeshasch@commerce.state.wi.us

Fire Safety Consultants

John Andersen Chippewa Falls 715-726-2556
Dave Bruflat Hayward 715-634-6739
Lyle Smith Waukesha 262-548-8621
Robert Kiser Appleton 920-954-1451
Terry Nolen Verona 608-845-5375
Dan Graham, Superv. Madison 608-266-0056

Plan Review Scheduling

For plan review scheduling for Plumbing and Buildings, call the S&B office numbers listed above, or contact the email address shown. Fax scheduling is possible, 877-840-9172.

Information about the project will be needed to schedule the plan review. Any of the offices can schedule the first appropriate plan review available statewide.

Plan review for Private Onsite Wastewater Treatment Systems is provided on a first-come, first-served basis. Contact one of the offices.

For scheduling info, also see <http://www.commerce.state.wi.us/SB/SB-DailyDoc.html>.

Specialty Telephone Contacts

Barrier Free Access Donna Stilen 262-548-8609
Codes Sales 800-362-7253
Credentialing 608-261-8500
Elevators Brian Rausch 262-521-5444
Fire Protection Systems .. Keith Glaunert 262-548-8604
Bill Sullivan 608-266-9643
Heating and Ventilation .. Randy Dahmen 608-266-3162
Hospitals & Nursing Homes, DHFS 608-266-3878
Industrial Hygienists Richard Brandt 262-521-5187
Tom Pritchett 608-592-3974
Lighting Randy Dahmen 608-266-3162
Manufactured Dwellings Gary Ekes 608-355-0108
Mobile/Manufactured Homes 608-266-8577
Plan Review Status S&B offices listed on this page
Refrigeration Mike Verhagen 262-548-8617
Structural Steel Welding .. Mike Verhagen 262-548-8617
Swimming Pool Review .. Glen Schlueter 608-267-1401
Uniform Dwelling Code ... Leroy Stublaski 608-267-5113
Rental Weatherization... Delores Kolosovsky 608-267-2240
Teletypewriter (TTY) 608-264-8777

Plumbing Plan Reviewers

Ryan Boebel Madison 608-261-6535
Herman Delfosse La Crosse 608-789-5535
Tom Devereaux Hayward 715-634-3026
Wes Grube Green Bay 920-492-5613
Dan Kraft Madison 608-266-8075
Ken Pertzborn Madison 608-267-2242
Curt Wendorff Shawano 715-526-9056

Plumbing Consultants

Tom Braun Stevens Point 715-345-5335
Don Hough Hayward 715-634-4804
Tim Joyce Madison 608-825-4724
Don Oremus Pelican Lake 715-487-6123
Robert Samuels Waukesha 414-548-8634
Jim Wehinger Friendship 608-339-7430
Jim Zickert Eldorado 920-872-2656
Harold Stanlick, Superv. Waukesha 262-521-5065

POWTS Wastewater Specialists

Ross Fugill Shawano 715-524-3629
Matthew Janzen Stevens Point 715-345-5336
Leroy Jansky Chippewa Falls 715-726-2544
Carl Lippert Hayward 715-634-3484
Karl Schultz Oshkosh 920-424-3311
Dennis Sorenson La Crosse 608-785-9336
Duane Steiner West Baraboo 608-355-3159
Allen Wendorf Madison 608-873-5476
Harold Stanlick, Superv. Waukesha 262-521-5065

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Electrical Consultants

Monte Ewing	Madison	608-266-3064
Tom Garvey	Milwaukee	414-747-0256
Raymond Weber	Wis. Rapids	715-421-2610
Dan Graham, Superv.	Madison	608-266-0056

POWTS Plan Reviewers

Tom Devereaux	Hayward	715-634-3026
Wes Grube	Green Bay	920-492-5613
Robert Kanter	Madison	608-261-7735
Julia Lewis-Osborn	Waukesha	262-548-8638
Pete Pagel	Madison	608-266-2889
Tom Perkins	Waukesha	262-521-5064
Pat Shandorf	Hayward	715-634-7810
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WBCR - March 2001
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